

HANDBOOK OF PHONOLOGICAL DATA
FROM A SAMPLE OF THE WORLD'S LANGUAGES

A Report of the Stanford Phonology Archive

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- 430 \$a PHONOLOGICAL WORD \$A initial C: all but /eng, r-flap-retroflex, w/ \$A final C: all but /t-aspirated, d/ (Pinnow says all the aspirates, including breathy voice stops, are absent finally.)
- 430 \$a SYLLABLE \$A (C)(C)V(C) \$A initial CC: these occur only in word-medial CCC groups. Examples have nasal + homorganic stop + liquid or /yod/, or stop + nasal + homorganic stop. (p.33)
- 430 01 \$A The voiceless unaspirated stops and affricates are "fairly tense. Before juncture or consonant they have a vocalic release." (p.4)
- 430 02 \$A The voiceless aspirated obstruents have a vocalic release before consonants. Before juncture all of them except /t/s-hacek-aspirated/...have a slightly affricated allophone." (p.5)
- 430 03 \$A Between a nasalized vowel and a consonant or juncture [b-unreleased-postglottalized], [d-retroflex-unreleased-postglottalized], and [j-unreleased-postglottalized] get "in addition to the glottalization, a strong nasal tinge..., especially so if the nasalized vowel is preceded by a nasal." These phones are usually unreleased. "However, before juncture [they may have] rarely a homorganic nasal release." (p.7f)
- 430 04 \$A /t-retroflex/ and /d-retroflex/ are described as "retroflex postalveolar." (p.5, 8)
- 430 05 \$A /r-flap/ is "trilled rarely." (p.12)
- 430 06 \$A /r-flap-retroflex/ is "articulated at a point further back than the retroflex stops." (p.12)
- 430 07 \$A /h-voice/ is "weakly voiced." (p.10)
- 430 60 \$A /p-aspirated/ rarely becomes [f] in all positions. (p.6)
- 430 61 \$A Word finally /b, d-retroflex, d/z-hacek/ become weakly voiced and postglottalized ("abruptly cut off by a glottal constriction") and usually unreleased. (Pinnow says they are unreleased, lax, and voiceless, with simultaneous or preceding [glottal stop].) /g/ becomes [glottal stop]. The same allophones occur before consonant, and /d-retroflex/ has a dental free variant before /t/. In this position none of the plain voiced stop series normally occur, but there are a few exceptional items with the plain voiced stops, a fact we handle here with the term "restricted contrast." (p.14, 18)
- 430 62 \$A /d-retroflex-breathy voice/ varies freely with [r-flap-retroflex-breathy voice] before a consonant, while only the former occurs word-initially and only the latter occurs word-finally. The occurrence of both /d-retroflex-breathy voice/ and [r-flap-retroflex-breathy voice] after consonant in one item each prompts Biligiri to set up the flap as a minor phoneme. (p.13)
- 430 63 \$A The nasals are syllabic between consonants, and finally and before /h-voice/. (Interpreted by Biligiri as "long" in the first case, "syllabic" in the second.) (p.10) /l/ is syllabic in the first environment. (p.11)
- 430 64 \$A /l/ is velarized between /u, o/ and word boundary; it is retroflex before retroflex stops. (p.11)
- 430 65 \$A /n/ is dental before dentals, retroflex before retroflex stops, and freely retroflex before palatals. Rarely a nasalized retroflex flap occurs between vowels. (p.10) [n-retroflex] is found finally in one word (a loan?).
- 430 66 \$A /eng/ is fronted between /i/ and word boundary. (p.11)
- 430 67 \$A /r-flap/ is rarely trilled. (p.12)
- 430 68 \$A /i, u, o/ are lowered in positions where they are short. Before CC both [e] and [epsilon] occur, in all other short environments only [epsilon]. (p.1ff, p.16f) (Pinnow mentions a similar relationship for [o] and [o-open].)
- 430 69 \$A /a/ is raised to [schwa] in all short environments, and varies freely with it before a glide plus C or word boundary. However before final (C)C (except the postglottalized stops and the glides) and before CV where this is a short environment [a] and [schwa] contrast. (p.1ff, p.16f)
- 430 70 \$A The glides are lowered between a vowel and following consonant or word boundary. (p.12)
- 430 71 \$A Pinnow gives the environment for [iota, upsilon] as "before nasal." He also gives [i-tremal] as allophone of /i/ between retroflex and [glottal stop].
- 430 72 \$A Pinnow gives closed syllable (or presence of the lowered allophone nearby) as environment for the lowered allophones of /e, o/.